

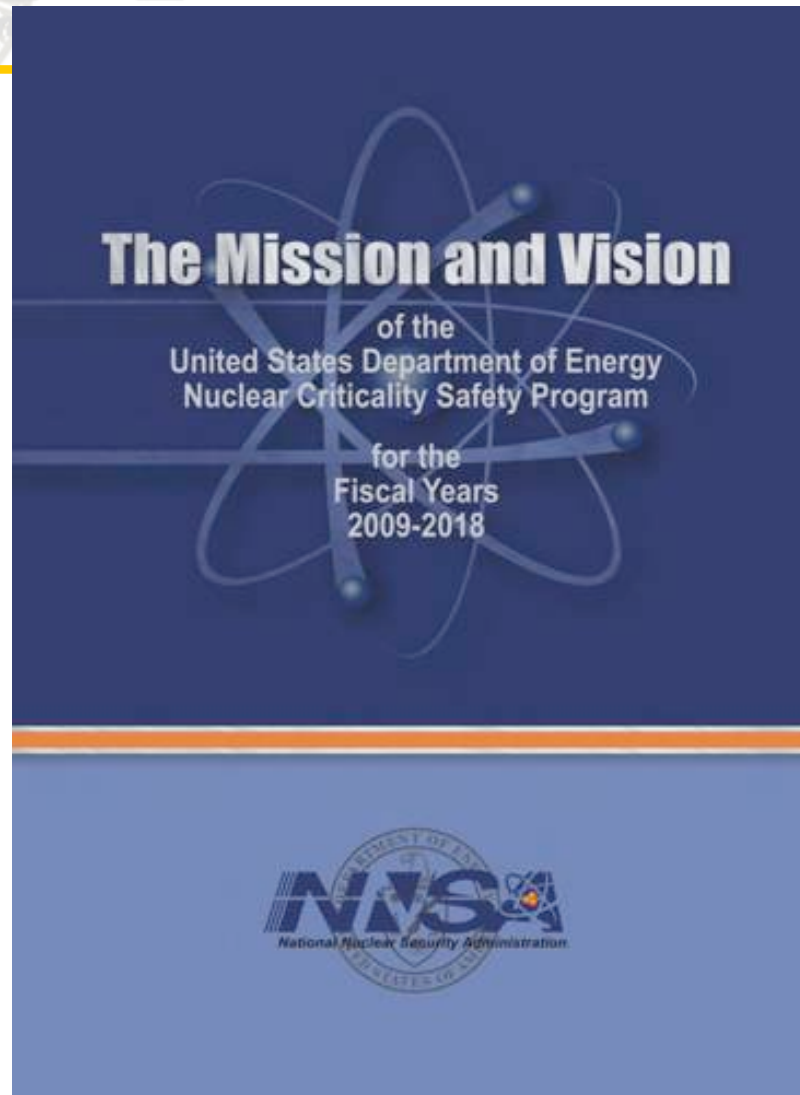
NCSP Accomplishments

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The NCSP Mission & Vision





The NCSP Mission & Vision

- **THE NCSP MISSION**

- The NCSP mission is to provide ***sustainable expert*** leadership, direction, and the technical infrastructure necessary to develop, maintain and disseminate the essential technical tools, training and data required to support ***safe, efficient*** fissionable material ***operations*** within the U.S. Department of Energy (DOE).

- **THE NCSP VISION**

- The NCSP will be a ***continually improving, adaptable, and transparent*** program that ***communicates*** and ***collaborates*** globally to incorporate technology, practices and programs to be ***responsive*** to the essential technical needs of those responsible for developing, implementing, and maintaining nuclear criticality safety.





NCSP Technical Elements

- **Analytical Methods** – Maintain and improve the Production Codes and Methods for Criticality Safety Engineers (e.g. MCNP, SCALE, & COG)
- **Nuclear Data** – Perform Measurements of Basic Nuclear (Neutron) Physics Cross-Sections and Generate New Evaluated Cross-Section Libraries and Covariance Data for Use in Production Criticality Safety Codes
- **Information Preservation and Dissemination (IPD)** – Protects Valuable Analyses and Information Related to Criticality Safety
- **Integral Experiments** – Critical and Subcritical Experiments at the Critical Experiments Facility (CEF) Now Being Stood Up at the Device Assembly Facility (DAF) in Nevada; the Sandia Criticality Experiments Facility; and additional experimental capabilities at Valduc, France – provide integral tests of codes and nuclear data
- **Training and Education** – Web-based training modules and Hands-On Criticality Safety Course at LANL, DAF and SNL for the Department's Criticality Safety Engineers, Line Management, and Oversight Personnel





NCSP Accomplishments

- Critical Experiment Facility (CEF) Staff continued making limited subcritical and fundamental physics measurements during CEF construction.
- CEF started nuclear operations in June 2011 and first critical experiment was on June 15 2011.
- Sandia National Laboratory will continue to perform water moderated criticality experiments and training.
- Pilot hands on courses scheduled this FY in August
- The US DOE continues collaborations with the French government for joint measurements/data acquisition

